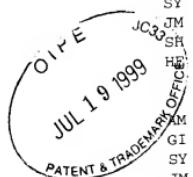


FIG 5



| | | |
|-------|--|-----|
| AM | ATGGGGGTGCAAGAATGTCCTGCCTGGCTGTGGCTTCCTGTCCTGCT | 50 |
| GI | ATGGGGGTGCAAGAATGTCCTGCCTGGCTGTGGCTTCCTGTCCTGCT | 50 |
| SY | ATGGGGGTGCAAGAATGTCCTGCCTGGCTGTGGCTTCCTGTCCTGCT | 50 |
| JM | ATGGGGGTGCAAGAATGTCCTGCCTGGCTGTGGCTTCCTGTCCTGCT | 50 |
| SR | ATGGGGGTGCAAGAATGTCCTGCCTGGCTGTGGCTTCCTGTCCTGCT | 50 |
| HE | ATGGGGGTGCAAGAATGTCCTGCCTGGCTGTGGCTTCCTGTCCTGCT | 50 |
| ***** | | |
| AM | GTGCGCTCCCTCTGGGCTTCCCAGTCCTGGGGCCCCACACGCCCTCATCT | 100 |
| GI | GTGCGCTCCCTCTGGGCTTCCCAGTCCTGGGGCCCCACACGCCCTCATCT | 100 |
| SY | GTGCGCTCCCTCTGGGCTTCCCAGTCCTGGGGCCCCACACGCCCTCATCT | 100 |
| JM | GTGCGCTCCCTCTGGGCTTCCCAGTCCTGGGGCCCCACACGCCCTCATCT | 100 |
| SH | GTGCGCTCCCTCTGGGCTTCCCAGTCCTGGGGCCCCACACGCCCTCATCT | 100 |
| HE | GTGCGCTCCCTCTGGGCTTCCCAGTCCTGGGGCCCCACACGCCCTCATCT | 100 |
| ***** | | |
| AM | GTGACAGCCGAGTCTGGAGAGGTACCTCTGGAGGCCAAGGGAGGCCAG | 150 |
| GI | GTGACAGCCGAGTCTGGAGAGGTACCTCTGGAGGCCAAGGGAGGCCAG | 150 |
| SY | GTGACAGCCGAGTCTGGAGAGGTACCTCTGGAGGCCAAGGGAGGCCAG | 150 |
| JM | GTGACAGCCGAGTCTGGAGAGGTACCTCTGGAGGCCAAGGGAGGCCAG | 150 |
| SH | GTGACAGCCGAGTCTGGAGAGGTACCTCTGGAGGCCAAGGGAGGCCAG | 150 |
| HE | GTGACAGCCGAGTCTGGAGAGGTACCTCTGGAGGCCAAGGGAGGCCAG | 150 |
| ***** | | |
| AM | AATATCACGGTGAGACCCCTTCCCCAGCACATTCCACAGAACTCACGCTC | 200 |
| GI | AATATCACGGTGAGACCCCTTCCCCAGCACATTCCACAGAACTCACGCTC | 200 |
| SY | AATATCACGGTGAGACCCCTTCCCCAGCACATTCCACAGAACTCACGCTC | 200 |
| JM | AATATCACGGTGAGACCCCTTCCCCAGCACATTCCACAGAACTCACGCTC | 200 |
| SH | AATATCACGGTGAGACCCCTTCCCCAGCACATTCCACAGAACTCACGCTC | 200 |
| HE | AATATCACGGTGAGACCCCTTCCCCAGCACATTCCACAGAACTCACGCTC | 200 |
| ***** | | |
| AM | AGGGCTTCAGGG-AACTCTCCAG-ATCCAGGAACCTGGCACTTGGTTT | 248 |
| GI | AGGGCTTCAGGG-AACTCTCCAG-ATCCAGGAACCTGGCACTTGGTTT | 248 |
| SY | AGGGCTTCAGGG-AACTCTCCAG-ATCCAGGAACCTGGCACTTGGTTT | 248 |
| JM | AGGGCTTCAGGG-AACTCTCCAG-ATCCAGGAACCTGGCACTTGGTTT | 248 |
| SH | AGGGCTTCAGGG-AACTCTCCAG-ATCCAGGAACCTGGCACTTGGTTT | 250 |
| HE | AGGGCTTCAGGGAACTCTCCAGGATCCAGGAACCTGGCACTTGGTTT | |
| ***** | | |
| AM | GGGGTGGAGTTGGGAAGCTAGACACTGCCCTACATAAGAATAAGTCT | 298 |
| GI | GGGGTGGAGTTGGGAAGCTAGACACTGCCCTACATAAGAATAAGTCT | 298 |
| SY | GGGGTGGAGTTGGGAAGCTAGACACTGCCCTACATAAGAATAAGTCT | 298 |
| JM | GGGGTGGAGTTGGGAAGCTAGACACTGCCCTACATAAGAATAAGTCT | 298 |
| SH | GGGGTGGAGTTGGGAAGCTAGACACTGCCCTACATAAGAATAAGTCT | 300 |
| HE | GGGGTGGAGTTGGGAAGCTAGACACTGCCCTACATAAGAATAAGTCT | |
| ***** | | |
| AM | GGTGGCCCCAACCATACCTGGAAACTAGGCAAGGAGCAAAGCCAGCAGA | 348 |
| GI | GGTGGCCCCAACCATACCTGGAAACTAGGCAAGGAGCAAAGCCAGCAGA | 348 |
| SY | GGTGGCCCCAACCATACCTGGAAACTAGGCAAGGAGCAAAGCCAGCAGA | 348 |
| JM | GGTGGCCCCAACCATACCTGGAAACTAGGCAAGGAGCAAAGCCAGCAGA | 348 |

| | | |
|----|--|-----|
| SH | GGTGGCCCCAACCATCTGGAACTAGGCAAGGAGCAAAGCCAGCAGA | 348 |
| HE | GGTGGCCCCAACCATCTGGAAACTAGGCAAGGAGCAAAGCCAGCAGA | 350 |
| AM | TCCTACGGCCTGTGGCCAGGGCCAG-AGCCTTCAGGGACCCCTTGACTCC | 397 |
| GI | TCCTAC-GCCCTGTGG-CCAGGGCCAG-AGCCTTCAGGGACCCCTTGACTCC | 395 |
| SY | TCCTACGGCCTGTGGGCCAGGGCCAA-AACCTTCAGGGACCCCTTGACTCC | 397 |
| JM | TCCTACGGCCTGTGGGCCAGGGCCAA-GACCTTCAGGGACCCCTTGACTCC | 398 |
| SH | TCCTACGGCCTGTGGGCCAGGGCCAA-GACCTTCAGGGACCCCTTGACTCC | 397 |
| HE | TCCTACGGCCTGTGGGCCAGGGCCAA-GACCTTCAGGGACCCCTTGACTCC | 399 |
| AM | CCGGGCTGTGCAATTTCAGACGGGCTGTGCTGAACACTGCAGCTTGAAT | 447 |
| GI | CCGGGCTGTGCAATTTCAGACGGGCTGTGCTGAACACTGCAGCTTGAAT | 445 |
| SY | CCGGGCTGTGCAATTTCAGACGGGCTGTGCTGAACACTGCAGCTTGAAT | 447 |
| JM | CCGGGCTGTGCAATTTCAGACGGGCTGTGCTGAACACTGCAGCTTGAAT | 448 |
| SH | CCGGGCTGTGCAATTTCAGACGGGCTGTGCTGAACACTGCAGCTTGAAT | 447 |
| HE | CCGGGCTGTGCAATTTCAGACGGGCTGTGCTGAACACTGCAGCTTGAAT | 449 |
| AM | GAGAATATCACTGTCCCCAGACACCCAAAGTAAATTCTATGCCCTGGAAGAG | 497 |
| GI | GAGAATATCACTGTCCCCAGACACCCAAAGTAAATTCTATGCCCTGGAAGAG | 495 |
| SY | GAGAATATCACTGTCCCCAGACACCCAAAGTAAATTCTATGCCCTGGAAGAG | 497 |
| JM | GAGAATATCACTGTCCCCAGACACCCAAAGTAAATTCTATGCCCTGGAAGAG | 498 |
| SH | GAGAATATCACTGTCCCCAGACACCCAAAGTAAATTCTATGCCCTGGAAGAG | 497 |
| HE | GAGAATATCACTGTCCCCAGACACCCAAAGTAAATTCTATGCCCTGGAAGAG | 499 |
| AM | GATGGAGGTGAGTTCTTTTTTTTTCTTCTTCTTTGGAGAATCT | 547 |
| GI | GATGGAGGTGAGTTCTTTTTTTTTCTTCTTCTTTGGAGAATCT | 545 |
| SY | GATGGAGGTGAGTTCTTTTTTTTTCTTCTTCTTTGGAGAATCT | 547 |
| JM | GATGGAGGTGAGTTCTTTTTTTTTCTTCTTCTTTGGAGAATCT | 548 |
| SH | GATGGAGGTGAGTTCTTTTTTTTTCTTCTTCTTTGGAGAATCT | 545 |
| HE | GATGGAGGTGAGTTCTTTTTTTTTCTTCTTCTTTGGAGAATCT | 549 |
| AM | CATTTGCGAGCGTGTGATGGATGAAAGGGAGAATGATCGGGGAAAGGT | 597 |
| GI | CATTTGCGAGCGTGTGATGGATGAAAGGGAGAATGATCGGGGAAAGGT | 595 |
| SY | CATTTGCGAGCGTGTGATGGATGAAAGGGAGAATGATCGGGGAAAGGT | 597 |
| JM | CATTTGCGAGCGTGTGATGGATGAAAGGGAGAATGATCGGGGAAAGGT | 598 |
| SH | CATTTGCGAGCGTGTGATGGATGAAAGGGAGAATGATCGGGGAAAGGT | 595 |
| HE | CATTTGCGAGCGTGTGATGGATGAAAGGGAGAATGATCGGGGAAAGGT | 599 |
| AM | AAAATGGAGCAGCAGAGATGAGGCTGCCTGGGCCAGAGGCTCACGTCA | 647 |
| GI | AAAATGGAGCAGCAGAGATGAGGCTGCCTGGGCCAGAGGCTCACGTCA | 645 |
| SY | AAAATGGAGCAGCAGAGATGAGGCTGCCTGGGCCAGAGGCTCACGTCA | 647 |
| JM | AAAATGGAGCAGCAGAGATGAGGCTGCCTGGGCCAGAGGCTCACGTCA | 648 |
| SH | AAAATGGAGCAGCAGAGATGAGGCTGCCTGGGCCAGAGGCTCACGTCA | 645 |
| HE | AAAATGGAGCAGCAGAGATGAGGCTGCCTGGGCCAGAGGCTCACGTCA | 649 |
| AM | TAATCCCAGGCTGAGATGGCCGAGATGGGAGAATTGCTTGAGCCCTGGAG | 697 |
| GI | TAATCCCAGGCTGAGATGGCCGAGATGGGAGAATTGCTTGAGCCCTGGAG | 695 |

| | | |
|-------|---|-----|
| SY | TAATCCCAGGCTGAGATGGCCGAATGGGAGAATTGCTTGAGGCCCTGGAG | 697 |
| JM | TAATCCCAGGCTGAGATGGCCGAATGGGAGAATTGCTTGAGGCCCTGGAG | 698 |
| SH | TAATCCCAGGCTGAGATGGCCGAATGGGAGAATTGCTTGAGGCCCTGGAG | 695 |
| HE | TAATCCCAGGCTGAGATGGCCGAATGGGAGAATTGCTTGAGGCCCTGGAG | 699 |
| ***** | | |
| AM | GTTCAGACCAACCTAGGCAGCATAGTGAGATCCCCATCTACAAACAT | 747 |
| GI | GTTCAGACCAACCTAGGCAGCATAGTGAGATCCCCATCTACAAACAT | 747 |
| SY | GTTCAGACCAACCTAGGCAGCATAGTGAGATCCCCATCTACAAACAT | 747 |
| JM | GTTCAGACCAACCTAGGCAGCATAGTGAGATCCCCATCTACAAACAT | 748 |
| SH | GTTCAGACCAACCTAGGCAGCATAGTGAGATCCCCATCTACAAACAT | 745 |
| HE | GTTCAGACCAACCTAGGCAGCATAGTGAGATCCCCATCTACAAACAT | 749 |
| ***** | | |
| AM | TTAAAAAAATTAGTCAGGTGAAGTGGTCAGTGGTAGTCCAGATATT | 797 |
| GI | TTAAAAAAATTAGTCAGGTGAAGTGGTCAGTGGTAGTCCAGATATT | 795 |
| SY | TTAAAAAAATTAGTCAGGTGAAGTGGTCAGTGGTAGTCCAGATATT | 797 |
| JM | TTAAAAAAATTAGTCAGGTGAAGTGGTCAGTGGTAGTCCAGATATT | 798 |
| SH | TTAAAAAAATTAGTCAGGTGAAGTGGTCAGTGGTAGTCCAGATATT | 795 |
| HE | TTAAAAAAATTAGTCAGGTGAAGTGGTCAGTGGTAGTCCAGATATT | 799 |
| ***** | | |
| AM | TGGAAGGCTGAGGCCGGGGAGATCGCTTGAGCCAGGAATTGAGGCTGCA | 847 |
| GI | TGGAAGGCTGAGGCCGGGGAGATCGCTTGAGCCAGGAATTGAGGCTGCA | 845 |
| SY | TGGATGGCTGAGGCCGGGGAGATCGCTTGAGCCAGGAATTGAGGCTGCA | 847 |
| JM | TGGAAGGCTGAGGCCGGGGAGATCGCTTGAGCCAGGAATTGAGGCTGCG | 848 |
| SH | TGGAAGGCTGAGGCCGGGGAGATCGCTTGAGCCAGGAATTGAGGCTGCA | 845 |
| HE | TGGAAGGCTGAGGCCGGGGAGATCGCTTGAGCCAGGAATTGAGGCTGCA | 849 |
| ***** | | |
| AM | GTGAGCTGTGATCACCAACTGCACTCCAGCCTCAGTGACAGAGTGAGGC | 897 |
| GI | GTGAGCTGTGATCACCAACTGCACTCCAGCCTCAGTGACAGAGTGAGGC | 895 |
| SY | GTGAGCTGTGATCACCAACTGCACTCCAGCCTCAGTGACAGAATGAGGC | 897 |
| JM | GTGAGCTGTGATCACCAACTGCACTCCAGCCTCAGTGACAGAGTGAGGC | 898 |
| SH | GTGAGCTGTGATCACCAACTGCACTCCAGCCTCAGTGACAGAGTGAGGC | 895 |
| HE | GTGAGCTGTGATCACCAACTGCACTCCAGCCTCAGTGACAGAGTGAGGC | 899 |
| ***** | | |
| AM | CCTGTCCTAAAAAGAAAAAGAAAAAGAAAAAGAAAAATAATGAGGGCTGTATGGA | 947 |
| GI | CCTGTCCTAAAAAGAAAAAGAAAAAGAAAAATAATGAGGGCTGTATGGA | 945 |
| SY | CCTGTCCTAAAAAGAAAAAGAAAAAGAAAAATAATGAGGGCTGTATGGA | 947 |
| JM | CCTGTCCTAAAAAGAAAAAGAAAAAGAAAAATAATGAGGGCTGTATGGA | 948 |
| SH | CCTGTCCTAAAAAGAAAAAGAAAAAGAAAAATAATGAGGGCTGTATGGA | 945 |
| HE | CCTGTCCTAAAAAGAAAAAGAAAAAGAAAAATAATGAGGGCTGTATGGA | 949 |
| ***** | | |
| AM | ATACATTCAATTCACTCACTCACTCACTCACTCACTCACTCACTCACT | 997 |
| GI | ATACATTCAATTCACTCACTCACTCACTCACTCACTCACTCACTCACT | 995 |
| SY | ATACATTCAATTCACTCACTCACTCACTCACTCACTCACTCACTCACT | 997 |
| JM | ATACATTCAATTCACTCACTCACTCACTCACTCACTCACTCACTCACT | 998 |
| SH | ATACATTCAATTCACTCACTCACTCACTCACTCACTCACTCACTCACT | 995 |
| HE | ATACATTCAATTCACTCACTCACTCACTCACTCACTCACTCACTCACT | 999 |
| ***** | | |

| | | |
|-------|---|------|
| AM | CATTCAACAAGTCTTATTGCATACTTCTGTTGCTCAGCTTGGTGCCTG | 1047 |
| GI | CATTCAACATGCTTATTGCATACTTCTGTTGCTCAGCTTGGTGCCTG | 1045 |
| SY | CATTCAACAAGTCTTATTGCATACTTCTGTTGCTCAGCTTGGTGCCTG | 1047 |
| JM | CATTCAACAAGTCTTATTGCATACTTCTGTTGCTCAGCTTGGTGCCTG | 1048 |
| SH | CATTCAACAAGTCTTATTGCATACTTCTGTTGCTCAGCTTGGTGCCTG | 1045 |
| HE | CATTCAACAAGTCTTATTGCATACTTCTGTTGCTCAGCTTGGTGCCTG | 1049 |
| ***** | | |
| AM | GGGCTGCTGAGGGGCAAGGGAGGGAGGGTGACATGGTCAGCTGACTCCC | 1097 |
| GI | GGGCTGCTGAGGGGCAAGGGAGGGAGGGTGACATGGTCAGCTGACTCCC | 1095 |
| SY | GGGCTGCTGAGGGGCAAGGGAGGGTGACATGGTCAGCTGACTCCC | 1097 |
| JM | GGGCTGCTGAGGGGCAAGGGAGGGTGACATGGTCAGCTGACTCCC | 1098 |
| SH | GGGCTGCTGAGGGGCAAGGGAGGGAGGGTGACATGGTCAGCTGACTCCC | 1095 |
| HE | GGGCTGCTGAGGGGCAAGGGAGGGAGGGTGACATGGGTTACTGACTCCC | 1099 |
| ***** | | |
| AM | AGAGTCACACTCCCTGTAGGTGGGGCAGCAGGGCTGAGAAGTCTGGCAGGG | 1147 |
| GI | AGAGTCACACTCCCTGTAGGTGGGGCAGCAGGGCTGAGAAGTCTGGCAGGG | 1145 |
| SY | AGAGTCACACTCCCTGTAGGTGGGGCAGCAGGGCTGAGAAGTCTGGCAGGG | 1147 |
| JM | AGAGTCACACTCCCTGTAGGTGGGGCAGCAGGGCTGAGAAGTCTGGCAGGG | 1148 |
| SH | AGAGTCACACTCCCTGTAGGTGGGGCAGCAGGGCTGAGAAGTCTGGCAGGG | 1145 |
| HE | AGAGTCACACTCCCTGTAGGTGGGGCAGCAGGGCTGAGAAGTCTGGCAGGG | 1149 |
| ***** | | |
| AM | CCTGGGCTGTGCGGAAGCTGTCTGGGGGCCAGGCCCTGTGGTCA | 1197 |
| GI | CCTGGGCTGTGCGGAAGCTGTCTGGGGGCCAGGCCCTGTGGTCA | 1195 |
| SY | CCTGGGCTGTGCGGAAGCTGTCTGGGGGCCAGGCCCTGTGGTCA | 1197 |
| JM | CCTGGGCTGTGCGGAAGCTGTCTGGGGGCCAGGCCCTGTGGTCA | 1198 |
| SH | CCTGGGCTGTGCGGAAGCTGTCTGGGGGCCAGGCCCTGTGGTCA | 1195 |
| HE | CCTGGGCTGTGCGGAAGCTGTCTGGGGGCCAGGCCCTGTGGTCA | 1199 |
| ***** | | |
| AM | ACTCTCCACCGCTGGGGAGCCCCCTGCAGCTGCATGTGGATAAAAGCCGTC | 1247 |
| GI | ACTCTCCACCGCTGGGGAGCCCCCTGCAGCTGCATGTGGATAAAAGCCGTC | 1245 |
| SY | ACTCTCCACCGCTGGGGAGCCCCCTGCAGCTGCATGTGGATAAAAGCCGTC | 1247 |
| JM | ACTCTCCACCGCTGGGGAGCCCCCTGCAGCTGCATGTGGATAAAAGCCGTC | 1248 |
| SH | ACTCTCCACCGCTGGGGAGCCCCCTGCAGCTGCATGTGGATAAAAGCCGTC | 1245 |
| HE | ACTCTCCACCGCTGGGGAGCCCCCTGCAGCTGCATGTGGATAAAAGCCGTC | 1249 |
| ***** | | |
| AM | AGTGGCCTTCGCGAGCCCTACCAACTCTGCTTGGGCTCTGGGAGGCCAGGT | 1297 |
| GI | AGTGGCCTTCGCGAGCCCTACCAACTCTGCTTGGGCTCTGGGAGGCCAGGT | 1295 |
| SY | AGTGGCCTTCGCGAGCCCTACCAACTCTGCTTGGGCTCTGGGAGGCCAGGT | 1297 |
| JM | AGTGGCCTTCGCGAGCCCTACCAACTCTGCTTGGGCTCTGGGAGGCCAGGT | 1298 |
| SH | AGTGGCCTTCGCGAGCCCTACCAACTCTGCTTGGGCTCTGGGAGGCCAGGT | 1295 |
| HE | AGTGGCCTTCGCGAGCCCTACCAACTCTGCTTGGGCTCTGGGAGGCCAGGT | 1299 |
| ***** | | |
| AM | GAGTAGGAGCGGACACTTCTGCTTGGCCCTTCTGTAAGAAGGGGAGAAGG | 1347 |
| GI | GAGTAGGAGCGGACACTTCTGCTTGGCCCTTCTGTAAGAAGGGGAGAAGG | 1345 |
| SY | GAGTAGGAGCGGACACTTCTGCTTGGCCCTTCTGTAAGAAGGGGAGAAGG | 1347 |
| JM | GAGTAGGAGCGGACACTTCTGCTTGGCCCTTCTGTAAGAAGGGGAGAAGG | 1348 |
| SH | GAGTAGGAGGGGACACTTCTGCTTGGCCCTTCTGTAAGAAGGGGAGAAGG | 1345 |
| HE | GAGTAGGAGCGGACACTTCTGCTTGGCCCTTCTGTAAGAAGGGGAGAAGG | 1349 |

| | | | | |
|-------|-----------------------|-----------------------|-------------------|------|
| AM | GTCTTGTCAAGGAGTACAGGA | ACTGTCCGATTCCCTCCCTTG | TGGC | 1397 |
| GI | GTCTTGTCAAGGAGTACAGGA | ACTGTCCGATTCCCTCCCTTG | TGGC | 1395 |
| SY | GTCTTGTCAAGGAGTACAGGA | ACTGTCCGATTCCCTCCCTTG | TGGC | 1397 |
| JM | GTCTTGTCAAGGAGTACAGGA | ACTGTCCGATTCCCTCCCTTG | TGGC | 1398 |
| SH | GTCTTGTCAAGGAGTACAGGA | ACTGTCCGATTCCCTCCCTTG | TGGC | 1395 |
| HE | GTCTTGTCAAGGAGTACAGGA | ACTGTCCGATTCCCTCCCTTG | TGGC | 1399 |
| ***** | | | | |
| AM | ACTGCAGCGACCTCTGT | TTTCTCCCTGGCGAAGGA | AGGCATCTCCCCT | 1447 |
| GI | ACTGCAGCGACCTCTGT | TTTCTCCCTGGCGAAGGA | AGGCATCTCCCCT | 1445 |
| SY | ACTGCAGCGACCTCTGT | TTTCTCCCTGGCGAAGGA | AGGCATCTCCCCT | 1447 |
| JM | ACTGCAGCGACCTCTGT | TTTCTCCCTGGCGAAGGA | AGGCATCTCCCCT | 1448 |
| SH | ACTGCAGCGACCTCTGT | TTTCTCCCTGGCGAAGGA | AGGCATCTCCCCT | 1445 |
| HE | ACTGCAGCGACCTCTGT | TTTCTCCCTGGCGAAGGA | AGGCATCTCCCCT | 1449 |
| ***** | | | | |
| AM | CCAGATCGGCCCTCAGCTG | TCCACTCGAACAA | TCACTGCTGACACTTT | 1497 |
| GI | CCAGATCGGCCCTCAGCTG | TCCACTCGAACAA | TCACTGCTGACACTTT | 1495 |
| SY | CCAGATCGGCCCTCAGCTG | TCCACTCGAACAA | TCACTGCTGACACTTT | 1497 |
| JM | CCAGATCGGCCCTCAGCTG | TCCACTCGAACAA | TCACTGCTGACACTTT | 1498 |
| SH | CCAGATCGGCCCTCAGCTG | TCCACTCGAACAA | TCACTGCTGACACTTT | 1495 |
| HE | CCAGATCGGCCCTCAGCTG | TCCACTCGAACAA | TCACTGCTGACACTTT | 1499 |
| ***** | | | | |
| AM | CCGCAAACCTTCCGAGT | CTACTCCAATT | TCCGGGAAAGCTGAAGC | 1547 |
| GI | CCGCAAACCTTCCGAGT | CTACTCCAATT | TCCGGGAAAGCTGAAGC | 1545 |
| SY | CCGCAAACCTTCCGAGT | CTACTCCAATT | TCCGGGAAAGCTGAAGC | 1547 |
| JM | CCGCAAACCTTCCGAGT | CTACTCCAATT | TCCGGGAAAGCTGAAGC | 1548 |
| SH | CCGCAAACCTTCCGAGT | CTACTCCAATT | TCCGGGAAAGCTGAAGC | 1545 |
| HE | CCGCAAACCTTCCGAGT | CTACTCCAATT | TCCGGGAAAGCTGAAGC | 1549 |
| ***** | | | | |
| AM | TGTACACAGGGAGGCC | TGTGAGACAGGGACAGATGA | 1584 | |
| GI | TGTACACAGGGAGGCC | TGTGAGACAGGGACAGATGA | 1582 | |
| SY | TGTACACAGGGAGGCC | TGTGAGACAGGGACAGATGA | 1585 | |
| JM | TGTACACAGGGAGGCC | TGTGAGACAGGGACAGATGA | 1585 | |
| SH | TGTACACAGGGAGGCC | TGTGAGACAGGGACAGATGA | 1583 | |
| HE | TGTACACAGGGAGGCC | TGTGAGACAGGGACAGATGA | 1586 | |
| ***** | | | | |

| | | |
|-------|---|-----|
| AM/GI | MGVHECPAWLWLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAE | 50 |
| SY | MGVHECPAWLWLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAE | 50 |
| JM | MGVHECPAWLWLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAE | 50 |
| SH | MGVHECPAWLWLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAE | 50 |
| HE | MGVHECPAWLWLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAE | 50 |
| ***** | | |
| AM/GI | NITTGCAEHCSLNENITVPDFTKVNFYAWKRMEVGQQAVEVWQGLALLSEA | 100 |
| SY | NITTGCAEHCSLNENITVPDFTKVNFYAWKRMEVGQQAVEVWQGLALLSEA | 100 |
| JM | NITTGCAEHCSLNENITVPDFTKVNFYAWKRMEVGQQAVEVWQGLALLSEA | 100 |
| SH | NITTGCAEHCSLNENITVPDFTKVNFYAWKRMEVGQQAVEVWQGLALLSEA | 100 |
| HE | NITTGCAEHCSLNENITVPDFTKVNFYAWKRMEVGQQAVEVWQGLALLSEA | 100 |
| ***** | | |
| AM/GI | VLRQALLVNNSQWPWEPLQLHVDKAVSGRLRSLTLLRALGAQEAISSPD | 150 |
| SY | VLRQALLVNNSQWPWEPLQLHVDKAVSGRLRSLTLLRALGAQEAISSPD | 150 |
| JM | VLRQALLVNNSQWPWEPLQLHVDKAVSGRLRSLTLLRALGAQEAISSPD | 150 |
| SH | VLRQALLVNNSQWPWEPLQLHVDKAVSGRLRSLTLLRALGAQEAISSPD | 150 |
| HE | VLRQALLVNNSQWPWEPLQLHVDKAVSGRLRSLTLLRALGAQEAISSPD | 150 |
| ***** | | |
| AM/GI | AASAAPLRTITADTFRKLFRVVSNFLRGKLLKLYTGEACRTGDR | 193 |
| SY | AASAAPLRTITADTFRKLFRVVSNFLRGKLLKLYTGEACRTGDR | 193 |
| JM | AASAAPLRTITADTFRKLFRVVSNFLRGKLLKLYTGEACRTGDR | 193 |
| SH | AASAAPLRTITADTFRKLFRVVSNFLRGKLLKLYTGEACRTGDR | 193 |
| HE | AASAAPLRTITADTFRKLFRVVSNFLRGKLLKLYTGEACRTGDR | 193 |
| ***** | | |